



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

INDEX TO VOLUME XX

A

- Acanthis linaria linaria*, 129
Accipiter cooperi, 18, 40, 127
 velox, 127
Aegialitis semipalmata, 185
Aeronautes melanoleucus, 103
Agelaius phoeniceus nevadensis, 72
 phoeniceus phoeniceus, 41, 186, 214
 tricolor, 18
Aimophila ruficeps eremoeca, 42, 212
Aix sponsa, 91
Ajaia ajaja, 79
Albatross, Black-footed, 179, 180
Aluco pratincola, 40
Ammodramus savannarum bimaculatus, 42
Amphispiza belli belli, 190
 bilineata bilineata, 42
 bilineata deserticola, 23
Anas platyrhynchos, 75
 Anderson, R. M., and Taverner, P. A., re-
 view of their "summary report of the
 geological survey of Canada, 1916",
 141
Anhinga, 38
Anhinga anhinga, 38
Anser albifrons albifrons, 85
Anthus rubescens, 45
 spraguei, 24
Antrostomus carolinensis, 41
 vociferus macromystax, 22
Aphelocoma californica californica, 12, 18,
 71, 117
 californica immanis, 190
 californica obscura, 60
 sieberi arizonae, 21
 texana, 212
Aphriza virgata, 85
Aquila chrysaetos, 72, 191
Archibuteo ferrugineus, 127
 lagopus sancti-johannis, 91
Archilochus alexandri, 21, 41, 46
Ardea herodias herodias, 18, 185
Ardetta exilis, 39
Asio flammeus, 101, 125, 127
 wilsonianus, 127
Astragalinus psaltria hesperophilus, 16
 tristis salicamans, 16
Astur atricapillus, 141
Asyndesmus lewisi, 18
Auklet, Cassin, 180
 Paroquet, 85
Auriparus flaviceps flaviceps, 43

B

- Baeolophus atricristatus sennetti*, 43
 wollweberi, 21
 Bailey, Florence Merriam, a return to the
 Dakota Lake region, 24, 64, 110, 132,
 170
 Baldpate, 123
 Belding, Lyman, death notice, 47; photo of,
 50
 Bergtold, W. H., review of his "a study of
 the incubation periods of birds—
 what determines their length?", 95
 Bittern, American, 28, 35, 75, 112, 136
 Least, 39
 Blackbird, Brewer, 72
 Nevada Red-wing, 72
 Red-winged, 18, 31, 41, 64, 65, 186
 Tricolored, 18
 Yellow-headed, 34, 69
 Bluebird, 44
 Western, 16, 18, 71
 Bobolink, 34, 68, 112, 113
 Bob-white, Texas, 39
Bombycilla cedrorum, 186
Bonasa umbellus, 185
Botaurus lentiginosus, 75
 Bowles, J. H., northern owls again visit
 Washington, 45; two more records for
 the widgeon in Washington and other
 notes, 93
Brachyramphus marmoratus, 184
 Bradbury, William C., notes on the nesting
 habits of the white-throated swift in
 Colorado, 103; notes on the nesting of
 the mountain plover, 157; nesting of
 the rocky mountain jay, 197
Branta canadensis, 185
 Bryant, Harold C., evidence on the food of
 hawks and owls in California, 126; a
 new bird for Catalina Island, 193
Bubo virginianus pacificus, 125, 127
 virginianus pallescens, 40
 virginianus saturatus, 45
 Bunting, Indigo, 23, 24
 Lazuli, 19, 23, 212
 Painted, 42, 191
 Bush-tit, Lead-colored, 170
Buteo borealis calurus, 40, 72, 127, 191
 borealis krideri, 214
 lineatus alleni, 40
 swainsoni, 191
Butorides virescens anthonyi, 169
 virescens virescens, 39

C

- Calcarius ornatus*, 87
Callipepla squamata castanogastris, 39
Calypte anna, 16, 18, 123
 costae, 21, 114, 168
Camptostoma imberbe, 212
Cardellina rubrifrons, 168
Cardinal, Gray-tailed, 42
Cardinalis cardinalis canicaudus, 42
Carpenter, Nelson K., observations in a swallow colony, 90; an odd nest of the song sparrow of Los Coronados Islands, 124
Carpodacus cassini, 71
 mexicanus frontalis, 15
Catbird, 28, 30
Catharista urubu, 24, 40
Cathartes aura septentrionalis, 40
Catherpes mexicanus conspersus, 43, 168
Centurus carolinus, 24
 aurifrons, 41
Cephus columba, 184
Certhia familiaris zelotes, 76
Ceryle alcyon, 186
 alcyon caurina, 72
 americana septentrionalis, 41
Chaemepelia pallescens pallescens, 169
Chaetura vauxi, 16, 18
Chapman, Frank S., review of his "the distribution of bird life in Colombia", 95
Chat, Yellow-breasted, 43
Chen rossi, 24
Chickadee, Chestnut-backed, 186
 Mountain, 13, 16, 21, 71, 72, 73, 76, 97, 199
 Oregon, 61
 Plumbeous, 43
Chicken, *Prairie*, 30, 110, 132, 134
Chondestes grammacus strigatus, 42, 190
Chordeiles acutipennis texensis, 41, 96
 virginianus henryi, 22
 virginianus hesperis, 24, 73
Chuck-wills-widow, 41
Cinclus mexicanus unicolor, 13, 70
Circus hudsonius, 18, 40, 127
Clangula islandica, 3
Coccyzus americanus americanus, 41
Coeligena clemenciae, 168
Colaptes auratus, 186
 auratus cafer, 216
 auritus cafer, 142
 cafer collaris, 72
 chrysoides, 169
Colinus virginianus texanus, 39
Columba fasciata fasciata, 15, 45, 185
Colymbus dominicus brachypterus, 38
 holboelli, 93, 184
 nigricollis californicus, 16, 18, 38
Communication, 213
Contopus pertinax pallidiventris, 167, 168
 richardsoni richardsoni, 168

- Cooper Ornithological Club*, directory of members, 147; minutes of, 99, 144, 194
Coot, *American*, 8, 32, 35, 36, 39, 92, 170, 193
Cormorant, *Brandt*, 85
Corvus brachyrhynchos, 140
 caurinus, 186
 corax, 186
Cory, Charles B., review of his "catalogue of birds of the Americas and adjacent islands in Field Museum of Natural History", 143
Cowbird, *Dwarf*, 41, 211
Creeper, *Rocky Mountain*, 199
 Sierra, 76
Crossbill, *Bendire*, 22, 24
 White-winged, 85
Crow, *American*, 27, 30, 34, 140, 170, 172
 Northwest, 186
Cryptoglaux acadica brooksi, 144
Cuckoo, *Yellow-billed*, 41, 136
Cyanocephalus cyanocephalus, 74, 190
Cyanocitta stelleri, 186
 stelleri diademata, 168
 stelleri frontalis, 16, 76
Cyanolaemus clemenciae bessophilus, 181
 clemenciae clemenciae, 181
Cyanospiza ciris, 42, 191

D

- Dafila acuta*, 77
Davis, John M., long waits for sets of the winter wren, 190
Dendragapus obscurus, 185
 obscurus sierrae, 45
Dendroica aestiva brewsteri, 15, 19
 aestiva sonorana, 168
 auduboni auduboni, 16, 22, 70, 189
 auduboni nigrifrons, 22
 chrysoptera, 43
 graciae, 168
 nigrescens, 46
Dice, Lee R., notes on the nesting of the redpoll, 129
Dickcissel, 42
Diomedea nigripes, 179
Dove, *Inca*, 40, 169
 Mexican Ground, 169
 Mourning, 109, 113, 169, 176
 Western Mourning, 39
 White-winged, 169
Dowitcher, *Long-billed*, 85
Dryobates pubescens glacialis, 85
 pubescens homorus, 22
 pubescens turati, 16
 scalaris bairdi, 41
 scalaris cactophilus, 169
 villosus, 186
 villosus hyloscopus, 16, 86, 169
 villosus leucothorectis, 86
 villosus orius, 71, 86

- Du Bois, A. D., an albino magpie, 189; a late nest of Swainson hawk, 191
 Duck, Golden-eye, 134, 135
 Ring-necked, 24
 Ruddy, 19, 37, 39, 170, 171
 Wood, 34, 56, 91
 Dwight, Jonathan, review of his "the geographical distribution of color and of other variable characters in the genus Junco: a new aspect of specific and subspecific values", 142

E

- Eagle, Bald, 185
 Golden, 72, 191, 212
 Harpy, 78
 Editorial notes and news, 47, 94, 128, 140, 194, 213
 Empidonax fulvifrons pygmaeus, 168
 hammondi, 18
 trailli trailli, 168, 211
 wrighti, 78
 Ereunetes mauri, 185
 Erismatura jamaicensis, 19, 39
 Eugenius fulgens, 168
 Euphagus cyanocephalus, 72

F

- Falco mexicanus, 127
 sparverius sparverius, 73, 127
 Falcon, Prairie, 127, 195
 Finch, Cassin Purple, 71, 78
 Gray-crowned Rosy, 76
 House, 15
 Fisher, Walter K., in memoriam: Lyman Belding, 51
 Flicker, 27, 35, 176, 186
 Gilded, 169
 Hybrid, 142, 216
 Red-shafted, 72, 73, 74
 Flycatcher, Arizona Crested, 22, 168
 Arkansas, 18
 Ash-throated, 41, 168
 Beardless, 212
 Buff-breasted, 168
 Coues, 21, 167, 168
 Crested, 41
 Gray, 44
 Hammond, 18
 Olivaceous, 168
 Olive-sided, 21, 46
 Scissor-tailed, 41, 212
 Sulphur-bellied, 168
 Traill, 168, 211, 212
 Vermilion, 41, 167
 Wright, 77, 78
 Fringilla crissalis, 117
 Fulica americana, 39, 92, 193

G

- Gadwall, 27
 Gallinago delicata, 74, 85
 Gallinula galeata, 39
 Gallinule, Florida, 39
 Purple, 39
 Gavia immer, 184
 pacific, 24
 Geococcyx californianus, 40
 Geothlypis beldingi, 57, 60
 trichas occidentalis, 16, 169
 trichas sinuosa, 62
 Glaucidium gnoma californicum, 18, 86, 127
 gnoma pinicola, 86
 Gnatcatcher, Blue-gray, 44
 Western, 19
 Goelitz, Walter A., the short-eared owl in Saskatchewan, 101
 Golden-eye, 3, 27, 177
 Barrow, 3
 Goldfinch, 136, 176
 Green-backed, 16
 Willow, 16
 Goose, Blue, 56
 Canada, 44, 71, 75, 185
 Ross Snow, 24
 White-fronted, 85
 Goshawk, 216
 Western, 141
 Grackle, Bronzed, 42
 Great-tailed, 42
 Grebe, American Eared, 16, 18, 38, 136, 196
 Holboell, 171, 175, 184
 Horned, 93
 Mexican, 38
 Pied-billed, 189
 Grey, Henry, wood duck at San Diego, 91; wood ibis at San Diego, 126
 Grinnell, H. W., review of T. Gilbert Pearson's "the bird study book", 48
 Grinnell, Joseph, the status of the white-rumped petrels of the California coast, 56; seven new or noteworthy birds from east-central California, 86; the name of the American barn swallow, 92; review of W. H. Bergtold's "a study of the incubation periods of birds—what determines their length?", 95; review of "Birds of America", 97; review of Robert Cushman Murphy's "Natural history observations from the Mexican portion of the Colorado desert", 97; extension of the known distribution of some northern California birds, 190; the Virginia warbler in California, 193
 Grosbeak, Black-headed, 14, 19
 Evening, 45
 Western Blue, 169
 Western Evening, 71, 168
 Grouse, Blue, 185
 Ruffed, 185

Sierra, 45
Guara rubra, 78
Guiraca caerulea lazula, 169
caerulea salicarius, 92
 Gull, Bonaparte, 27, 77, 85
 Franklin, 27, 175, 177, 178, 192
 Glaucous-winged, 184
 Heermann, 122, 145, 185, 187
 Herring, 184
 Short-billed, 184
 Swallow-tailed, 116
 Western, 124

H

Haliaeetus leucocephalus, 185
 Hanna, Wilson C., nesting notes from the San Bernardino Valley, 126; first occurrence of the dwarf cowbird in the San Bernardino Valley, California, 211
 Hansen, Harold E., two midwinter records for San Francisco County, California, 93
 Hansen, Harold E., and Squires, Walter A., the destruction of birds at the light-houses on the coast of California, 6
 Hasselborg, Allen E., bird notes from Admiralty Island, southeastern Alaska, 191
 Hawk, American Sparrow, 73, 127
 Cooper, 18, 40, 127
 Florida Red-shouldered, 40
 Harris, 40, 212
 Marsh, 18, 30, 35, 40, 111, 113, 127, 132, 134
 Pigeon, 185
 Red-tailed, 107
 Rough-legged, 91
 Sennett White-tailed, 212
 Sharp-shinned, 127
 Swainson, 191
 Western Red-tailed, 72, 127, 191
Heleodytes brunneicapillus couesi, 43, 189
 Hen, Heath, 146
 Henshaw, F. W., some pugnacious coots, 92
 Heron, Anthony Green, 169
 Black-crowned Night, 28, 29, 35, 39, 171, 172
 Great Blue, 18, 185
 Green, 39
 Louisiana, 39
Hesperiphona vespertina californica, 45
vespertina montana, 71, 168
Heterorhynchus olivaceus, 114
Himantopus mexicanus, 126
Hirundo erythrogaster, 92
 rustica, 92
 rustica erythrogaster, 92
 rustica palmeri, 92
 Holleman, Ridley, and Quillin, Roy W., the

breeding birds of Bexar County, Texas, 37
 Howell, A. B., review of E. R. Kalmbach's "the crow and its relation to man", 140
 Hummingbird, Allen, 146
 Anna, 16, 18, 75
 Black-chinned, 21, 41, 46
 Blue-throated, 168
 Broad-tailed, 21, 87, 168
 Calliope, 16, 70, 74
 Costa, 21, 114, 168, 196
 Rivoli, 168
 Rufous, 146, 186
 Hunt, Richard, the tragical addition of a new bird to the Campus list, 125
Hydranassa tricolor ruficollis, 39
Hylocichla aonalaschkae auduboni, 61
 guttata auduboni, 89
 guttata *polionota*, 89
 guttata sequoiensis, 24, 89
 guttata slevini, 192
 ustulata oedica, 61
 ustulata swainsoni, 89
 ustulata ustulata, 192

I

Ibis, Scarlet, 78
 White-faced Glossy, 39
 Wood, 126
Icteria virens virens, 43
Icterus bullocki, 42, 170
 cucullatus nelsoni, 170
 parisorum, 22, 170
 Ingersoll, A. M., second occurrence of Wilson plover in California, 187
Ionornis martinica, 39
Iridoprocne bicolor, 42, 71, 85

J

Jaeger, Long-tailed, 85
 Jay, Arizona, 21
 Belding, 60, 98
 Blue-fronted, 16, 76
 California, 12, 18, 71, 98
 Canada, 186, 206, 208
 Long-crested, 168
 Long-tailed, 190
 Oregon, 83
 Pinyon, 74, 190, 201
 Rocky Mountain, 197
 Steller, 186
 Texas, 212
 Woodhouse, 71
 Xantus, 98
 Junco, Arizona, 168
 Red-backed, 21, 22, 23
 Sierra, 76, 189
 Thurber, 15

- Junco annectens*, 142
 bairdi, 57
 dorsalis, 142
 hyemalis connectens, 84, 142
 hyemalis hyemalis, 142
 hyemalis montanus, 142
 hyemalis thurberi, 15
 oreganus couesi, 142
 oreganus shufeldti, 84, 142
 oreganus thurberi, 76, 189
 phaeonotus dorsalis, 22
 phaeonotus palliatus, 23, 168
 ridgwayi, 142
- K**
- Kalmbach, E. R., review of his "the crow and its relation to man", 140
 Killdeer, 30, 35, 39, 66, 69
 Kingbird, 27, 30, 34, 44, 111, 172, 177
 Arkansas, 34, 176, 190
 Cassin, 168, 169
 Kingfisher, 186
 Texas, 41
 Western Belted, 72, 73
 Kinglet, 186
 Sitka, 85
 Western Golden-crowned, 24
 Western Ruby-crowned, 72, 77, 78
 Kirn, A. J., supposed new record for central Kansas, 191
 Kitchin, E. A., the rough-legged hawk in western Washington, 91
- L**
- Lanius borealis*, 61
 ludovicianus, 209
 ludovicianus anthonyi, 209
 ludovicianus gambeli, 209
 ludovicianus mearnsi, 209
 ludovicianus mexicanus, 209
 ludovicianus nelsoni, 209
Lanivireo solitarius, 141
 solitarius cassini, 19
 solitarius plumbeus, 168
 Lark, Horned, 69
 Yuma Horned, 146
Larus argentatus, 184
 brachyrhynchus, 184
 franklini, 192
 glaucescens, 184
 heermanni, 122, 185, 187
 philadelphia, 77, 85
 Leopold, Aldo, do purple martins inhabit bird boxes in the west?, 93; are red-headed woodpeckers moving west?, 122
 Litsey, John B., an eastern record for the Townsend solitaire, 44
 Littlejohn, Chase, lesser yellow-legs and peccatorial sandpiper in San Mateo County, California, 44

- Longspur, Chestnut-collared, 87, 113
 Loon, Common, 184
 Pacific, 24
Loxia curvirostra bendirei, 22, 24
 curvirostra stricklandi, 22
 leucoptera, 85
Lunda cirrhata, 178

M

- Macrorhamphus griseus scolopaceus*, 85
 Magpie, American, 72, 176, 189
 Mailliard, Joseph, early autumn birds in Yosemite Valley, 11; additional records of the European widgeon in California, 122; the Yolla Bolly fox sparrow, 138; new records for some of the islands off the coast of southern California, 189; when the thrushes cease from singing, 192
 Mallard, 33, 35, 37, 67, 75, 133, 191
Mareca americana, 188
 penelope, 93, 122, 187, 192
Marila collaris, 24
 Martin, Purple, 42, 47, 61, 93, 132, 136
 Meadowlark, Western, 34, 61, 68, 69, 100, 112, 134
Megalestris skua, 179
Megaquiscalus major macrourus, 42
Melanerpes erythrocephalus, 122
 formicivorus bairdi, 16
Meleagris gallopavo intermedium, 212
Melopelia asiatica, 169
Melospiza lincolni lincolni, 17, 189
 lincolni striata, 17, 18
 melodia clementae, 124
 melodia cooperi, 126
 melodia fisherella, 17, 18, 45, 126
 melodia melodia, 214
 melodia rufina, 186
 melodia saltonis, 126
 Merganser, American, 70, 73, 185
Mergus americanus, 70
 Miller, Loye, the eastern kingbird in California again, 44; a surprising trait in the black-necked stilt, 126; the Kaeding petrel in California, 211; first flights of a young golden eagle, 212
Mimus polyglottos leucopterus, 190
 polyglottos polyglottos, 43
 Mockingbird, 43, 190
Molothrus ater obscurus, 41, 211
 Munro, J. A., the Barrow golden-eye in the Okanagan Valley, British Columbia, 3; review of his "report of field work in Okanagan and Shuswap districts in 1916", 48
 Murphy, Robert Cushman, review of his "natural history observations from the Mexican portion of the Colorado desert", 97

Murre, California, 178
 Murrelet, Marbled, 98, 184
 Muscivora forficata, 41, 212
 Myadestes townsendi, 44
 Mycteria americana, 126
 Myiarchus cinerascens cinerascens, 41, 168
 crinitus, 41
 lawrencei olivascens, 168
 magister magister, 22, 168
 Myiochanes pertinax pallidiventris, 21
 richardsoni richardsoni, 46, 96
 Myiodynastes luteiventris, 96, 168

N

Nannus hiemalis, 186
 hiemalis pacificus, 190
 Nettion carolinensis, 185
 Nighthawk, Pacific, 24, 73, 78
 Texas, 41
 Nutcracker, Clarke, 199, 202
 Nuthatch, Canada, 46
 Inyo Slender-billed, 88
 Pigmy, 21, 73
 Red-breasted, 12, 16
 Rocky Mountain, 2
 Slender-billed, 75
 White-breasted, 176
 Nuttallornis borealis, 46
 Nyctea nyctea, 45, 93, 193
 Nycticorax nycticorax naevius, 39

O

Oberholser, Harry C., description of a new subspecies of *Cyanolaemus clemenciae*, 181; description of a new *Lanius* from Lower California, 209
 Oceanodroma beldingi, 60
 furcata, 180
 leucorhoa beali, 46
 leucorhoa beldingi, 46
 leucorhoa kaedingi, 46, 211
 leucorhoa leucorhoa, 46
 Ochthodromus wilsonius wilsonius, 187
 Oidemia americana, 85
 deglandi, 185
 Olor columbianus, 93
 Oporornis formosus, 43
 tolmiei, 17, 76
 Oreortyx picta plumifera, 61
 Oreospiza chlorura, 15, 73
 Oriole, Arizona Hooded, 170
 Baltimore, 176
 Bullock, 42, 170
 Scott, 22, 170
 Ornismya costae, 114
 Otus asio aikenii, 24
 asio bendirei, 127
 asio kennicotti, 185
 asio mccalli, 40
 asio quercinus, 127

Ouzel, Water, 13, 70, 78
 Owl, Aiken Screech, 24
 Barn, 40
 Burrowing, 30, 40, 176
 California Pigmy, 18
 California Screech, 127
 Dusky Horned, 45
 Flammulated, 58
 Horned, 191
 Long-eared, 127, 134, 195
 Pacific Horned, 125, 127, 195
 Pigmy, 58, 127
 Rocky Mountain Pigmy, 86
 Screech, 185
 Short-eared, 101, 112, 113, 125, 127
 Snowy, 45, 93, 193
 Southern California Screech, 127
 Texas Barred, 40
 Western Barred, 58
 Western Horned, 40
 Oxyechus vociferus, 39

P

Palmer, T. S., Costa's hummingbird—its type locality, early history and name, 114; another reference to early experiments in keeping hummingbirds in captivity, 123; Pacific coast records of the European widgeon, 187
 Parabuteo unicinctus harrisi, 40, 212
 Parrot, Thick-billed, 100
 Partridge, Chestnut-bellied, 39
 Parus montanus, 61
 Passer domesticus, 42
 Passerculus alaudinus, 123
 beldingi, 57, 60
 sandwichensis nevadensis, 17, 18
 Passerella iliaca brevicauda, 139
 iliaca megarhyncha, 75
 iliaca stephensi, 138, 139
 Passerina amoena, 19, 23, 212
 cyanea, 23, 24
 Pearson, T. Gilbert, review of his "the bird study book", 48
 Pelican, California Brown, 124
 White, 29, 47
 Penthestes carolinensis agilis, 43
 gambeli gambeli, 13, 21, 71
 rufescens, 186
 Perisoreus canadensis, 186
 canadensis capitalis, 197
 obscurus griseus, 84
 obscurus obscurus, 83
 obscurus rathbuni, 83
 Petrel, Belding, 60
 Fork-tailed, 180
 Kaeding, 211
 Petrochelidon lunifrons lunifrons, 42, 91
 Peucaea cassini, 42
 Peucedramus olivaceus, 168

- Pewee, Western Wood, 46, 96, 168
 Wood, 176
 Peyton, Laurence, large sets of eggs of the
 western red-tailed hawk, 191
 Phainopepla, 193
 Phainopepla nitens, 193
 Phalacrocorax dilophus albociliatus, 57
 penicillatus, 85
 Phalaenoptilus nuttalli californicus, 144
 nuttalli nuttalli, 41
 Phalarope, Northern, 192
 Red, 192
 Wilson, 44, 65
 Phalaropus fulicarius, 192
 Phalaris psittacula, 85
 Phloeotomus pileatus, 186
 pileatus abieticola, 13
 pileatus picinus, 45
 Phoebe, 41
 Black, 14, 190
 Pica pica hudsonia, 72, 189
 Pierce, Wright M., Salton Sink song spar-
 row at Oro Grande, California, 126
 Pigeon, Band-tailed, 15, 45, 185
 Pintail, 30, 32, 33, 34, 35, 77, 123
 Pipilo aberti, 169
 crissalis, 117
 crissalis carolae, 118, 119
 crissalis crissalis, 118, 119, 139
 crissalis senicula, 118, 119
 erythrophthalmus alleni, 23
 erythrophthalmus erythrophthalmus, 23
 fuscus, 117
 fuscus carolae, 118
 fuscus mesoleucus, 169
 fuscus senicula, 117
 maculatus, 83, 117
 maculatus curtatus, 87
 maculatus falcinellus, 15, 87
 maculatus montanus, 87
 Pipit, 45, 98, 112
 Sprague, 24
 Piranga hepatica, 21, 168
 ludoviciana, 14, 21, 46, 168
 rubra cooperi, 169
 rubra rubra, 42
 Pisobia maculata, 44
 Planesticus migratorius, 186
 migratorius propinquus, 14, 168
 Plegadis guarauna, 39, 61
 Plover, Mountain, 56, 109, 157
 Semipalmated, 185
 Upland, 64, 112, 113
 Wilson, 187
 Podasocys montanus, 157, 163
 Podilymbus podiceps, 189
 Polioptila caerulea caerulea, 44
 caerulea obscura, 19
 Polyborus cheriway, 40
 Poor-will, 41
 Progne subis subis, 42, 93
 Psaltriparus minimus, 117
 plumbeus, 170
 Ptarmigan, 185
 Ptychorhamphus aleuticus, 180
 Puffin, Tufted, 178, 180
 Puffinus creatopus, 85, 178
 fuliginosus, 178
 griseus, 185
 Pyrocephalus rubinus mexicanus, 41, 167
 Pyrrhuloxia, Arizona, 169
 Texas, 42
 Pyrrhuloxia sinuata sinuata, 169
 sinuata texana, 42
- Q**
- Quail, Mountain, 56, 61
 Querquedula cyanoptera, 38
 Quillin, Roy W., and Holleman, Ridley, the
 breeding birds of Bexar County, Tex-
 as, 37
 Quiscalus quiscula aeneus, 42
- R**
- Rail, Belding, 60
 Sora, 31, 64, 65, 69
 Rallus beldingi, 58, 60
 Raven, 107, 186
 Ray, Milton S., six weeks in the high Sierras
 in nesting time, 70
 Redhead, 5, 26
 Redpoll, 129
 Redstart, Painted, 21, 168
 Red-tail, Western, 40
 Regulus calendula cineraceus, 72
 calendula grinnelli, 85
 satrapa olivaceus, 24
 Riparia riparia, 90
 Roadrunner, 40
 Robin, 186
 Western, 14, 168
 Rough-leg, Ferruginous, 127, 136
- S**
- Salpinctes obsoletus obsoletus, 19, 126
 Sandpiper, Pectoral, 44
 Spotted, 27, 136
 Western, 185
 Sapsucker, Red-breasted, 18
 Sierra, 24
 Sierra Red-breasted, 72, 73, 74
 Williamson, 45, 72, 73, 74, 76
 Sayornis nigricans, 14, 190
 phoebe, 41
 Scardafella inca, 40, 169
 Scaup, 3, 26
 Schussler, George W., the salt-marsh yel-
 lowthroats of San Francisco, 62
 Scoter, American, 85
 White-winged, 25, 132, 175, 185

- Selasphorus platycercus*, 21, 87, 168
 rufus, 13, 16, 123, 186
 Sell, R. A., the scarlet ibis in Texas, 78
Setochalcis vocifera arizonae, 91
Setophaga picta, 21, 168
Shearwater, 185
 Pink-footed, 85, 178
 Sooty, 178
 Shoveller, 27, 30, 31, 32, 33, 34, 38, 67
Sialia mexicana occidentalis, 16, 18, 71
 sialis sialis, 44
Sitta canadensis, 12, 46
 carolinensis aculeata, 75, 88
 carolinensis nelsoni, 21, 88
 carolinensis tenuissima, 88
 pygmaea leuconucha, 58
 pygmaea pygmaea, 21, 73
 Skua, 179, 180
 Smith, Austin Paul, September notes from
 Keddie, Plumas County, California, 45;
 whip-poor-will in New Mexico, 91;
 some Texas bird notes, 212
 Snipe, Wilson, 74, 85, 136
 Solitaire, Townsend, 44, 57
 Sora, 67, 136, 170
 Sparrow, Baird, 98
 Belding Marsh, 60
 Bell, 98, 190
 Black-chinned, 22, 42
 Brewer, 17, 18
 Cassin, 42
 Clay-colored, 25, 28, 68, 112, 176
 Desert, 23
 English, 42
 Forbush, 17, 18
 Gambel, 15, 16, 18
 Harris, 24
 Lincoln, 17, 189
 Modoc Song, 18, 45, 126
 Nelson, 64, 67
 Nevada Savannah, 17, 18
 Rock, 42, 212
 Rufous-crowned, 98
 Salton Sink Song, 126
 San Diego Song, 126
 Savannah, 34, 67, 112
 Song, 23, 69, 176, 186
 Stephens Fox, 138
 Thick-billed, 61, 75, 77
 Vesper, 69, 70, 112
 Western Chipping, 15, 16, 189
 Western Grasshopper, 42
 Western Lark, 42, 190, 212
 White-crowned, 15, 61
 Yolla Bolly Fox, 138
Spatula clypeata, 38
Speotyto cunicularia hypogaea, 40
Spiza americana, 42
Spizella atrogularis, 22
 breweri, 17
 passerina arizonae, 15, 189
Sphyrapicus ruber ruber, 18
 thyroideus thyroideus, 45, 72
 varius daggetti, 24, 72
 Spoonbill, 9
 Roseate, 79
 Squires, Walter A., and Hansen, Harold E.,
 the destruction of birds at the light-
 houses on the coast of California, 6
Stellula calliope, 16, 70
 Stephens, Frank,—an autobiography, 164
Stercorarius longicauda, 85
Sterna hirundo, 180
 paradisaea, 85
 Stilt, Black-necked, 126
Strix varia helveola, 40
 Surf-bird, 85
 Swallow, American Barn, 34, 37, 68, 92
 Bank, 90
 Cliff, 52, 71, 72, 73, 75, 76, 91, 105, 109
 Tree, 71, 85
 Violet-green, 105
 Swan, Whistling, 93
 Swarth, H. S., notes on some birds from
 central Arizona, 20; review of J. A.
 Munro's "report of field work in Oka-
 nagan and Shuswap districts in
 1916", 48; the subspecies of the Ore-
 gon Jay, 83; review of Frank S. Chap-
 man's "distribution of bird life in
 Colombia", 95; the distribution of the
 subspecies of the brown towhee
 (*Pipilo crissalis*), 117; review of P. A.
 Taverner and R. M. Anderson's "sum-
 mary report of the geological survey
 of Canada", 141; review of Jonathan
 Dwight's "the geographical distribu-
 tion of color and of other variable
 characters in the genus Junco: a new
 aspect of specific and subspecific val-
 ues", 142; review of Charles B. Cory's
 "catalogue of birds of the Americas
 and adjacent islands in Field museum
 of natural history", 143
 Swift, Chimney, 176
 Vaux, 16, 18
 White-throated, 16, 103, 196
- T
- Tachytriorchis albicaudatus sennetti*, 212
 Tanager, Cooper, 169
 Hepatic, 21, 168
 Summer, 42
 Western, 14, 21, 46, 168, 196
 Taverner, P. A., and Anderson, R. M., re-
 view of their "summary report of the
 geological survey of Canada for
 1916", 141
 Taverner, P. A., some summer birds of Alert

- Bay, British Columbia, 183; Heermann
 Gull with white primary coverts, 187;
 trinomials and current practice, 213
 Taylor, Henry Reed, death notice, 47
 Teal, Blue-winged, 31, 65, 67
 Cinnamon, 38, 123
 Green-winged, 185
 Tern, Arctic, 85
 Black, 32, 111, 112, 113, 175
 Common, 180
 Thrasher, Curve-billed, 43
 Pasadena, 126
 Thrush, Big Tree, 59
 Dwarf Hermit, 145
 Monterey Hermit, 192
 Russet-backed, 192
 Sierra Hermit, 24
 White Mountains Hermit, 89
 Thryomanes bewicki, 83
 bewicki cryptus, 43
 Thryothorus ludovicianus ludovicianus, 43
 Titmouse, Bridled, 21
 Plain, 98
 Sennett, 43
 Totanus flavipes, 44
 Towhee, Abert, 97, 169
 California Brown, 97, 117
 Canyon, 117, 169
 Green-tailed, 15, 73, 77
 Mountain, 87
 Sacramento, 15
 Spotted, 83
 Toxostoma curvirostre curvirostre, 43
 redivivum pasadenense, 126
 Trochilus topiltzin, 181
 Troglodytes aedon parkmani, 19, 75, 168
 Turdus sequoiensis, 59
 Turkey, Rio Grande, 212
 Tyrannus tyrannus, 44
 verticalis, 18, 170, 190
 vociferans, 168, 170
- U**
- Uria troille californica, 178
- V**
- Verdin, 43, 98
 Vermivora celata lutescens, 16, 18
 celata sordida, 189
 luciae, 168
 rubricapilla gutturalis, 17
 virginiae, 168, 193
 Vireo, Bell, 43, 98
 Black-capped, 212
 California Least, 211
 Cassin, 19, 141
 Gray, 98
 Plumbeous, 168
 Warbling, 176
 Western Warbling, 16, 19, 168
 White-eyed, 43
 Vireo atricapillus, 212
 belli belli, 43
 belli medius, 212
 belli pusillus, 211
 griseus griseus, 43
 Vireosylva gilva swainsoni, 16, 19, 168
 Vulture, Black, 24, 38, 40
 Turkey, 38, 40
- W**
- Walker, Alex, corrections, 44
 Warbler, Audubon, 16, 22, 70, 74, 189
 Black-throated Gray, 46
 Calaveras, 17
 California Yellow, 211
 Dusky, 189
 Golden-cheeked, 43
 Golden Pileolated, 19
 Grace, 168
 Kentucky, 43
 Lucy, 98, 168
 Lutescent, 16, 17, 18
 Macgillivray, 17
 Olive, 168
 Red-faced, 21, 98, 168
 Sonora Yellow, 168
 Tolmie, 76
 Virginia, 168, 193
 Yellow, 15, 19, 30, 172, 176
 Warburton, Stanley, Jr., some oceanic birds
 from off the coast of Washington and
 Vancouver Island, 178; late snowy owl
 dates, 193
 Waxwing, Cedar, 186
 Wetmore, Alexander, a note on the tracheal
 air-sac in the ruddy duck, 19
 Whip-poor-will, Stephens, 22, 91
 Widgeon, American, 123
 European, 93, 122, 187, 192
 Willard, F. C., evidence that many birds re-
 main mated for life, 167
 Willet, 34, 113
 Willett, George, bird notes from Forrester
 Island, Alaska, 85; a peculiarity of
 plumage in some specimens of the
 Heermann gull, 122
 Wilsonia pusilla chryseola, 19
 Woodpecker, Baird, 41
 Batchelder, 22
 Cabanis, 16, 169
 Cactus, 169
 California, 16
 Golden-fronted, 41
 Hairy, 186
 Lewis, 18
 Modoc, 71, 72, 73, 76
 Northern Pileated, 13
 Pileated, 45, 186
 Red-bellied, 24

- Red-headed, 26, 69, 122
Texas, 41
Valdez Downy, 85
White-breasted, 86
White-headed, 45
Willow, 16
Wren, Bewick, 83
Cactus, 43, 189
Canyon, 43, 98, 168
Carolina, 43
House, 28, 69, 136
Parkman, 75
Rock, 19, 126
Texas Bewick, 43
Western House, 19, 168
Western Winter, 190
Winter, 186
Wren-tit, 98
Wyman, L. E., notes from southern California, 192
- X
- Xenopicus albolarvatus albolarvatus, 45
- Y
- Yellowlegs, Lesser, 44
Yellowthroat, Belding, 60
Maryland, 25, 28, 34, 176
Salt-marsh, 62
Western, 16, 169
- Z
- Zamelodia melanocephala, 14, 19
Zenaidura macroura carolinensis, 169
macroura marginella, 39
Zonotrichia albicollis, 61
leucophrys gambeli, 15, 18
leucophrys leucophrys, 15
querula, 24